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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/932,385	08/17/2001	Guichao Hua	P/144-281	4420

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EXAMINER

NGUYEN, MATTHEW VAN

ART UNIT PAPER NUMBER

2838

DATE MAILED: 03/05/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/932,385

Applicant(s)
Hua et al.

Examiner
MATTHEW V. NGUYEN

Art Unit
2838



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 1/17/03
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-10 is/are allowed.
- 6) ☒ Claim(s) 11-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____ 6) ☐ Other:

Art Unit: 2838

1. The disclosure should be carefully reviewed and ensure that any and all grammatical, idiomatic, and spelling or other minor errors are corrected. For instance, in Fig. 3, reference number 8 is missing at the first arrow; in claim 1, line 5, after "single", -- output -- should be inserted.
2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11, 12 and 15-17 are rejected under 35 U.S.C. 102(b) as being anticipated by

Seong (U.S. Pat. No. 5,771,160) or Zak (U.S. Pat. No. 5,619,404).

With regard to claims 11, 12 and 15-17, either Seong (i.e., Fig. 1) or Zak (i.e., Fig. 2) shows a multiple output adapter circuit comprising all the claimed subject matter such as a single output converter circuit (10 in both Seong and Zak) having a full-wave bridge rectifier for converting an ac supply voltage into a single dc voltage, a dc-dc converter circuit (20-40 in Seong; 12 in Zak) connected thereto and converting the single dc voltage into multiple output dc voltages.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Seong or Zak in view of Hua (U.S. Pat. No. 6,118,673).

With regard to claim 13, either Seong or Zak shows a multiple output adapter circuit comprising all the claimed subject matter as discussed above, except for the rectifier circuit being a single diode. Hua (Fig. 1) shows a power converter circuit in which the rectifier circuit DR is a single diode. It would have been obvious to one having ordinary skill in the art at the time the invention was made to replace the full-wave bridge rectifier in Seong or Zak with a single diode as disclosed in Hua for the purpose of simplifying the circuit as reducing the number of diodes.

4. Claims 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Seong or Zak in view of Itoh et al. (U.S. Pat. No. 5,519,306).

With regard to claim 14, either Seong or Zak shows a multiple output adapter circuit comprising all the claimed subject matter as discussed above, except for the rectifier circuit being a half-wave rectifier. Itoh et al. (Fig. 6) shows a power converter circuit in which the rectifier circuit 21 is a half-wave rectifier. It would have been obvious to one having ordinary skill in the art at the time the invention was made to replace the full-wave bridge rectifier in Seong or Zak

with a half-wave rectifier as disclosed in Itoh et al. for the purpose of simplifying the circuit as reducing the number of diodes.

5. Claims 1-10 are allowable over prior art.

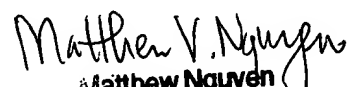
None of prior art of record taken alone or in combination shows first and second housings remotely located in which the first housing encloses the single power converter circuit, and the second housing encloses the dc-dc converter circuit.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chang et al. (U.S. Pat. No. 6,369,525) also discloses a power converter circuit which comprises an ac-dc rectifier circuit and a dc-dc multiple output converter.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew V. Nguyen whose telephone number is (703) 305-3415.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.


Matthew Nguyen
Primary Examiner